



# Anti-PTK2B (aa 50-150) polyclonal antibody (DPABH-09031)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Involved in calcium induced regulation of ion channel and activation of the map kinase signaling pathway. May represent an important signaling intermediate between neuropeptide activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. Interacts with the SH2 domain of Grb2. May phosphorylate the voltage-gated potassium channel protein Kv1.2. Its activation is highly correlated with the stimulation of c-Jun N-terminal kinase activity. Involved in osmotic stress-dependent SNCA Tyr-125 phosphorylation. In concert with SRC, plays an important role in osteoclastic bone resorption. Both the formation of a SRC-PTK2B complex, and SRC kinase activity are necessary for this function. The Tyr-402 phosphorylated form serves as a docking site for SRC and is important for the organization of the osteoclast actin cytoskeleton and attachment sites and for bone resorption.
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human PYK2.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Rat, Human
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF
<b>Format</b>	Liquid
<b>Size</b>	100 µg

Buffer	pH: 7.40; Constituent: PBS
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

Gene Name	<a href="#">PTK2B protein tyrosine kinase 3 beta [ Homo sapiens ]</a>
Official Symbol	PTK2B
Synonyms	PTK2B; protein tyrosine kinase 2 beta; PKB; PTK; CAKB; FAK2; PYK2; CADTK; FADK2; RAFTK; protein-tyrosine kinase 2-beta; FADK 2; CAK-beta; protein kinase B; focal adhesion kinase 2; cell adhesion kinase beta; proline-rich tyrosine kinase 2; calcium-dependent tyrosine kinase; PTK2B protein tyrosine kinase 2 beta; related adhesion focal tyrosine kinase; calcium-regulated non-receptor proline-rich tyrosine kinase;
Entrez Gene ID	<a href="#">2185</a>
Protein Refseq	<a href="#">NP_004094.3</a>
UniProt ID	<a href="#">Q14289</a>
Pathway	Alpha-synuclein signaling; BDNF signaling pathway; Calcium signaling pathway; Cell-Cell communication
Function	3-phosphoinositide-dependent protein kinase binding; ATP binding; contributes_to N-methyl-D-aspartate selective glutamate receptor activity; calmodulin-dependent protein kinase activity